

The ATLAS PAC and User Program

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ATLAS User Workshop

April 8, 2006

Argonne National Laboratory



***A U.S. Department of Energy
Office of Science Laboratory
Operated by The University of Chicago***



The New ATLAS Program Advisory Committee

Ani Aprahamian (UEC Chair) – University of Notre Dame

Birger Back - **Argonne National Laboratory**

Sean Freeman - **Manchester University**

David Radford (Chair) - **Oak Ridge National Laboratory**

Hendrik Schatz - **Michigan State University**

Gene Sprouse - **SUNY, Stony Brook**

Piet Van Duppen - **University of Leuven, Belgium**

Previous PAC Membership

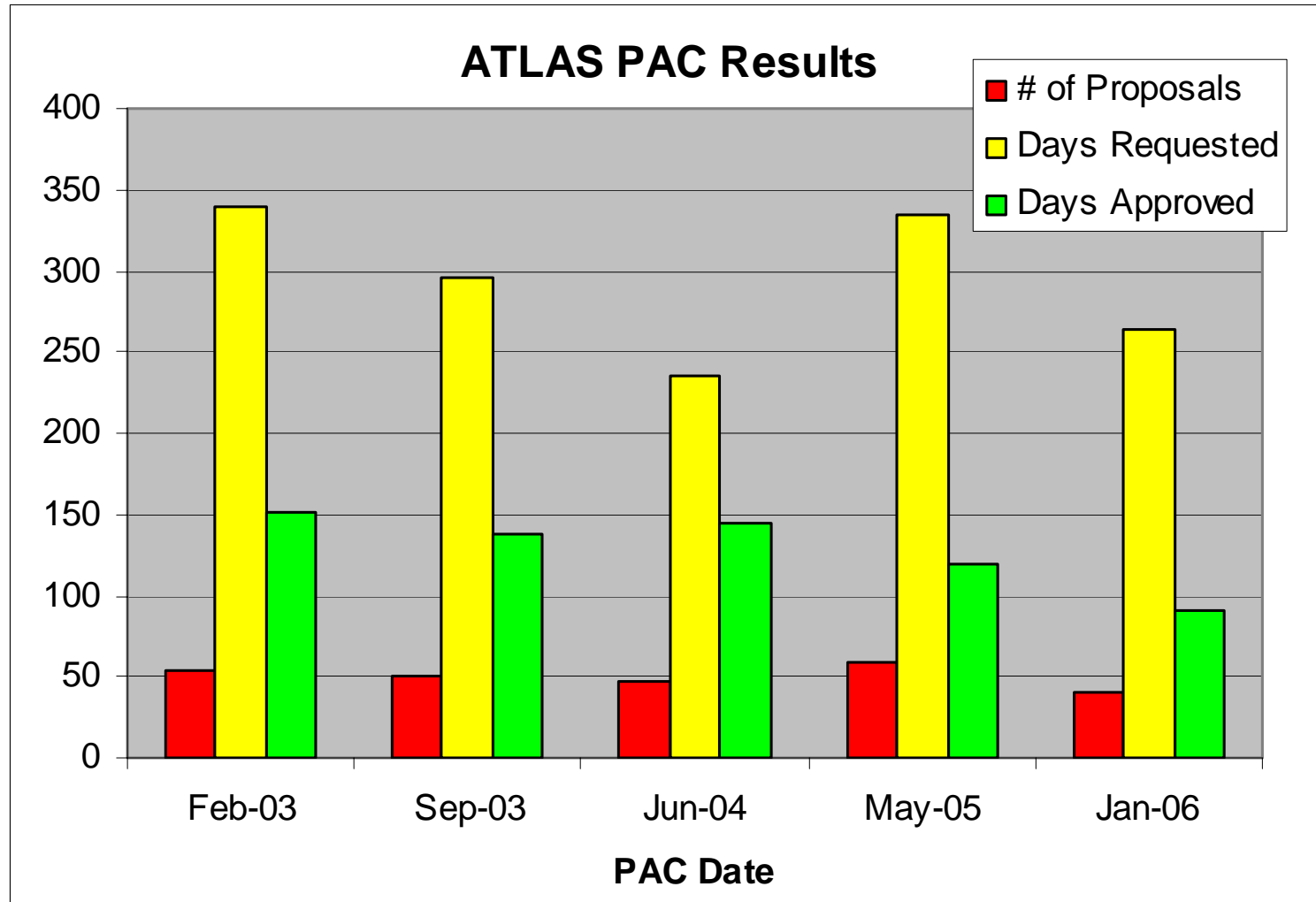
January – 2006

Ani Aprahamian	-	University of Notre Dame
Birger Back	-	Argonne National Laboratory
Art Champagne	-	University of North Carolina, Chapel Hill
Augusto Macchiavelli	-	Lawrence Berkeley National Laboratory
David Radford	-	Oak Ridge National Laboratory
Gene Sprouse	-	SUNY Stony Brook
Piet Van Duppen	-	University of Leuven, Belgium

May – 2005

Ani Aprahamian	-	University of Notre Dame
Birger Back	-	Argonne National Laboratory
Art Champagne	-	University of North Carolina, Chapel Hill
Augusto Macchiavelli	-	Lawrence Berkeley National Laboratory
David Radford	-	Oak Ridge National Laboratory
Gene Sprouse	-	SUNY Stony Brook
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PAC History FY03 - Present



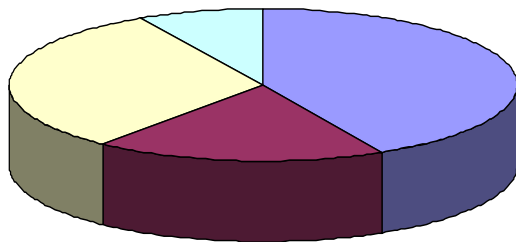
User Program Summary

FY 2005

Institution	Number		
U.S. University	79	42%	
Foreign University	35	19%	
U.S. National Lab.	58	31%	
Foreign Laboratories	15	8%	
<i>Total</i>	187		

ATLAS Users 1-Oct-04 to 30-Sep-05

- U.S. University
- Foreign University
- U.S. National Lab.
- Foreign Laboratories



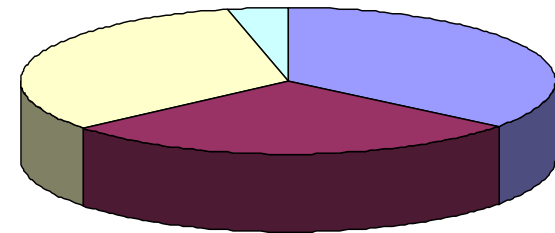
53 Students – 13 Theses

FY 2004

Institution	Number		
U.S. University	60	36%	
Foreign University	48	28%	
U.S. National Lab.	55	33%	
Foreign Laboratories	6	4%	
<i>Total</i>	169		

Users 1-Oct-03 to 30-Sep-04

- U.S. University
- Foreign University
- U.S. National Lab.
- Foreign Laboratories



52 Students – 7 Theses

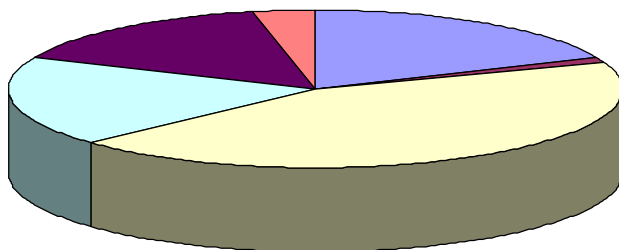
FY 2005 Experiment Summary

Station Usage

Type	Days	
FMA	33	18%
ATPHY	2	1%
GS Standalone	78	44%
Spectrograph (SPS-III)	33	18%
CPT/SPS-II	27	15%
ATSCAT	6	3%
		0%
<i>Total</i>	179	

Beamtime allocation 10/1/04-9/30/05

- FMA
- ATPHY
- GS Standalone
- Spectrograph (SPS-III)
- CPT/SPS-II
- ATSCAT
-

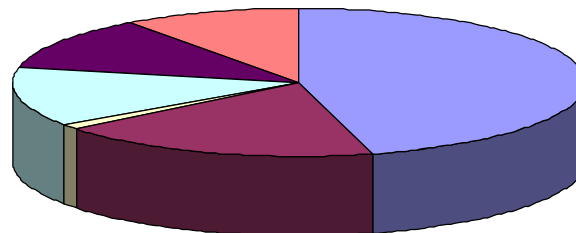


Subfield Breakdown

Type	Days	
Nuclear Structure	82	46%
Nuclear Astrophysics	33	18%
RIA Development	2	1%
CPT	23	13%
Developmental	21	12%
Reactions	18	10%
<i>Total</i>	179	

Beamtime allocation 10/1/04-9/30/05

- Nuclear Structure
- Nuclear Astrophysics
- RIA Development
- CPT
- Developmental
- Reactions



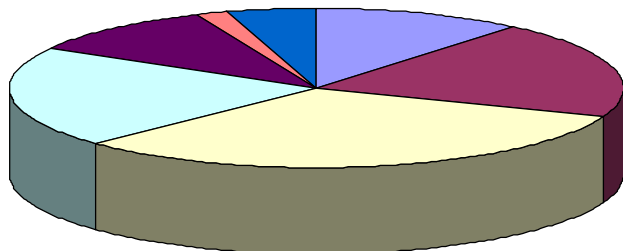
FY 2004 Experiment Summary

Station Usage

Type	Days	
FMA	24	11%
FMA/GS	43	20%
GS Standalone	69	32%
Spectrograph (SPS-III)	45	21%
CPT/SPS-II	22	10%
Laser Trap	4	2%
36" Scattering Chamber	10	5%
Total	217	

Beamtime allocation 10/1/03-9/30/04

- FMA
- FMA/GS
- GS Standalone
- Spectrograph (SPS-III)
- CPT/SPS-II
- Laser Trap
- 36" Scattering Chamber

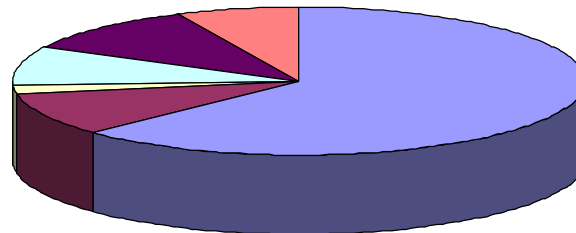


Subfield Breakdown

Type	Days	
Nuclear Structure	136	63%
Nuclear Astrophysics	21	10%
AMS	4	2%
CPT	18	8%
Developmental	23	11%
Reactions	15	7%
Total	217	

Beamtime allocation 10/1/03-9/30/04

- Nuclear Structure
- Nuclear Astrophysics
- AMS
- CPT
- Developmental
- Reactions



ATLAS Experiments to be Scheduled

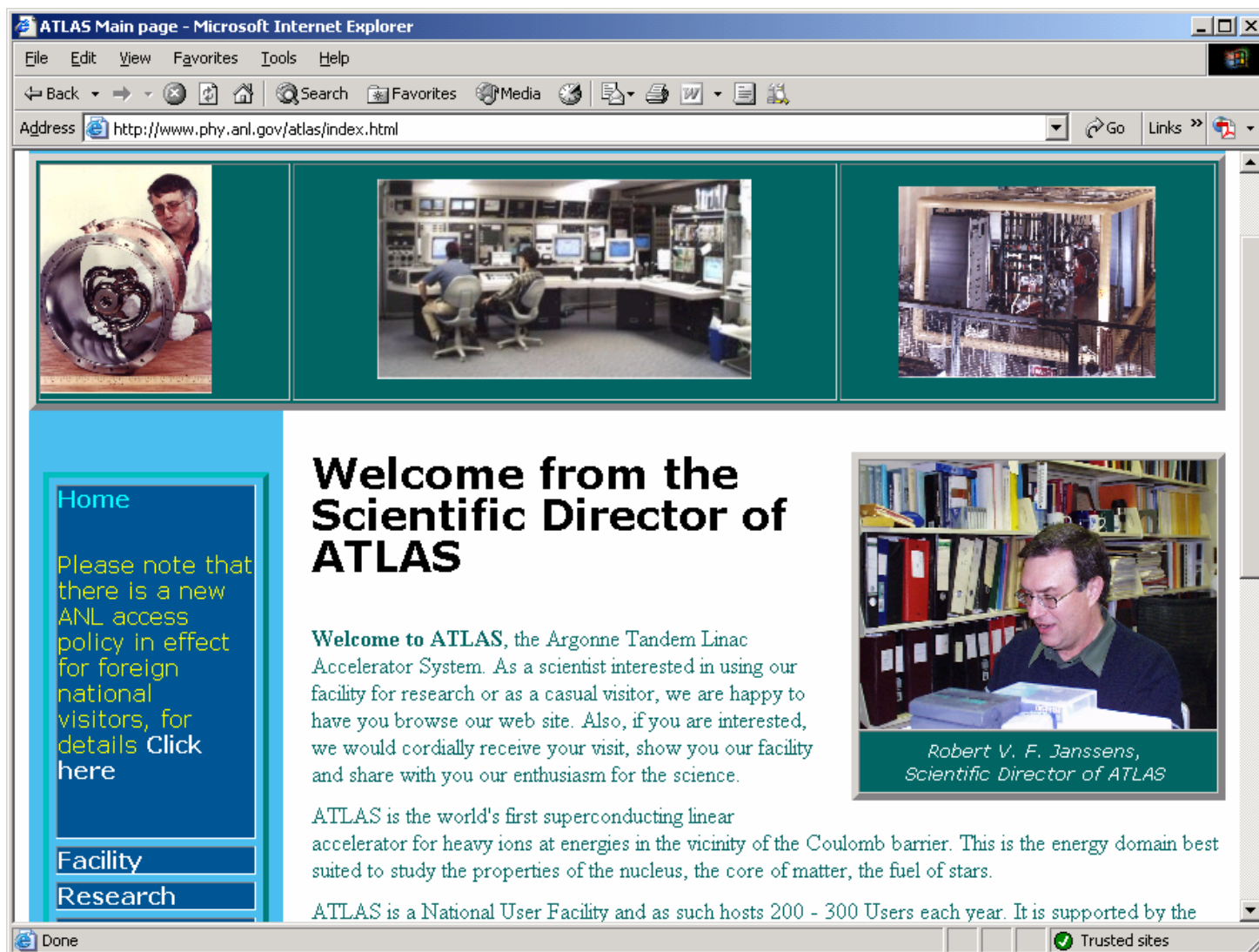
- *Total Approved ~ 180 days*
 - *~40 days on schedule*
 - *103 days January PAC*
 - *50 days prior PAC backlog*
- *ATSCAT – 3 days*
- *CPT – 15 days*
- *FMA – 17 days*
- *FMA/GS – 44 days*
- *GS – 48 days*
- *SPS-III – 10 days*

Next PAC meeting September 15 -16 – Proposals due August 15

ATLAS Scheduling

- **Scheduling of ATLAS beam time – *MORE ADVANCED NOTICE!***
 - **Scheduled in 2 month periods (occasional revisions)**
 - **Try to schedule all PAC approved experiments according to PAC priority assignments**
- **Scheduling considerations**
 - **Optimize effective use of accelerator & equipment**
 - **Because of budget constraints, 5.3 day/week is the norm (7 day running is the exception)**
 - **Allow for maintenance without unnecessary downtime**
 - **Run in campaigns (regroup experiments with same set-up) to try to ease pressure on staff (cope with reductions imposed by budgets)**
 - **There is less flexibility than in the past and we beg for your understanding**
 - **Provide adequate setup time for each experiment**
 - **Ensure access to experimental areas (radiation issues)**
 - **Availability of in-house collaborators**
 - **Accommodate outside User travel constraints if possible**
 - **Consideration of individual User's preferences...if possible**

New Web Page



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ATLAS User Meeting

